CIVIL PRO
AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

## TEST RESULTES FOR MS BLOCK PIPE

| | | | |
|---|---|---|---|
| **Lab ID** | : CP-2017-02-22-01 | **Date:** | 24-02-17 |
| **Customer** | : Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore | | |
| **Address** | : Yelahanka zone project division, BBMP, Bangalore | | |
| **Project Name** | : Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04 | | |
| **Agency** | : Sri H.V. ONKARAPPA | | |
| **Sourse of Sample** | : Sample supplied by Agency | | |
| **Sample Condition** | : Satisfactory | | |
| **Date of Receipt** | : 22-02-17 | | |
| **Sample ID No** | : 2017-02-22-01-03 | | |
| **Type of Sample** | : MS block pipe for chain link fencing | | |
| **Reference to BIS codes** | : IS 2062: 2011 | | |
| **Date of testing** | : 23-02-17 | | |

**TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE**

| SL.NO | Description | Result | Required as per as IS Code 2062: 2011 | Remarks |
|---|---|---|---|---|
| 1 | **Yeild Stress** | 286 $N/mm^2$ | 250$N/mm^2$ | Satisfactory |
| 2 | **Tensile Strength** | 469 $N/mm^2$ | 410$N/mm^2$ | Satisfactory |
| 3 | **Elongation Percentage** | 25% | Min 23% | Satisfactory |

**Note:**
**The results pertain to the samples received and tested.**
**All information furnished by Customer/Representative.**
**Any correction in the report will make this report invalid**
**This report without prior written approval should not be reproduced or published in full or part.**
**Samples will be disposed after 30 days from the date of issue of test certificate**

**Prepared by**
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
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****End of Report****

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

## TEST RESULTES FOR MS RECTANGULAR POLE

| | | | |
|---|---|---|---|
| **Lab ID** | : | CP-2017-02-22-01 | **Date:** 24-02-17 |
| **Customer** | : | Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore | |
| **Address** | : | Yelahanka Yelahanka zone project division, BBMP, Bangalore | |
| **Project Name** | : | Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04 | |
| **Agency** | : | Sri H.V. ONKARAPPA | |
| **Sourse of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 22-02-17 | |
| **Sample ID No** | : | 2017-02-22-01-04 | |
| **Type of Sample** | : | MS rectangular pole for chain link fencing | |
| **Reference to BIS codes** | : | IS 2062: 2011 | |
| **Date of testing** | : | 23-02-17 | |

**TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER**

| SL.NO | Description | Result | Required as per IS Code 2062:2011 | Remarks |
|---|---|---|---|---|
| 1 | **Weight/Meter** | 5.82 Kg /m | 5.8 Kg/m | Satisfactory |
| 2 | **Yeild stress** | 269N/mm$^2$ | 250N/mm$^2$ | Satisfactory |
| 3 | **Tensile Strength** | 445N/mm$^2$ | 410N/mm$^2$ | Satisfactory |
| 4 | **Elongation Percentage** | 24% | Min23% | Satisfactory |

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**Prepared by**
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## TEST RESULTS FOR WIRE MESH

| | | | | |
|---|---|---|---|---|
| **Lab ID** | : | CP-2017-02-22-01 | **Date:** | 24-02-17 |
| **Customer** | : | Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore | | |
| **Address** | : | Yelahanka zone project division, BBMP, Bangalore | | |
| **Project Name** | : | Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04 | | |
| **Agency** | : | Sri H.V. ONKARAPPA | | |
| **Sourse of Sample** | : | Sample supplied by Agency | | |
| **Sample Condition** | : | Satisfactory | | |
| **Date of Receipt** | : | 22-02-17 | | |
| **Sample ID No** | : | 2017-02-22-01-05 | | |
| **Type of Sample** | : | Chain link fencing | | |
| **Technical Reference** | : | IS 2721:2003 | | |
| **Date of testing** | : | 23-02-17 | | |

| TESTS RESULT FOR WIRE MESH | | |
|---|---|---|
| **SL.NO** | **Description** | **Result** |
| 1 | **Average Thickness :** | 4.03mm |
| 2 | **Bend Test** | Satisfactory |

**Note:**
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**Prepared by**
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

# TEST REPORT OF FINE AGGREGATE

**Lab ID** : **CP-2017-02-22-01** **Date:** 28-02-17

**Customer** : Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore

**Address** : Yelahanka zone project division, BBMP, Bangalore

**Project Name** : Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04

**Agency** Sri H.V. ONKARAPPA

**Source of Sample** : Sample supplied by the customer

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-02-17

**Sample ID No** : 2017-02-22-01-02

**Sample Type** : Fine Aggregates

**Reference to BIS codes** : IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 :1963(Part - 1, 2, 3) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
IS 2386 Part 3: Specific gravity, Density, Voids,Water Observation

**Date of test** : 23-02-17

**Total weight taken:** 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:1970 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 41 | 41 | 4.1 | 95.9 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 43 | 84 | 8.4 | 91.6 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 60 | 144 | 14.4 | 85.6 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 124 | 268 | 26.8 | 73.2 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 425 | 693 | 69.3 | 30.7 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 270 | 963 | 96.3 | 3.7 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 37 | 1000 | 100 | 0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone III**



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# TEST REPORT OF FINE AGGREGATE

**Date:** 28-02-17

**Lab ID** : **CP-2017-02-22-01**

**Sample ID No** : 2017-02-22-01-02

**PHYSICAL PROPERTIES**

| Sl.no | Tests | Result | Requirements as per IS:383-1970 (RA2016) |
|---|---|---|---|
| 1 | Water Absorption(%) | 3.06% | – |
| 2 | Specific Gravity | 2.5 | – |
| 3 | Material finer than 75 micron | 6.1 | Not more than 15 percent |

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**Samples will be disposed after 90 days from the date of issue of test certificate**

**Prepared by**
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

**FOR CIVIL Pro.**

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****End of Report****

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | CP-2017-02-22-01 **Date:23-03-2017** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalor |
| **Address** | : | Yelahanka zone project division, BBMP, Bangalore |
| **Project Name** | : | Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04 |
| **Agency** | | Sri H.V. ONKARAPPA |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 22-02-17 |
| **Sample ID No** | : | 2017-02-22-01-01 |
| **Sample Type** | : | Birla Super 53 grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 22-02-2017 to 22-03-2017 |

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving | 3.85 | – |
| 2 | Finess by Air permeablity method | 284.5m2/kg, Min | 225$m^2$/kg, Min |
| 3 | Density | 3.5gm/cc | gm/cc |
| 4 | Specific Gravity | 3.19 | – |
| 5 | Standard Consistency | 28.5% | Not specified |
| 6 | Initial Setting time | 275 minutes | Not less than 30 minutes |



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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

**Date:23-03-2017**

**Lab ID** : CP-2017-02-22-01

**Sample ID No** : 2017-02-22-01-01

| | | | |
|---|---|---|---|
| 7 | Final Setting time | 325 minutes | Not more than 600 minutes |
| 8 | Soundness (Le Chatelier's Method) | 1mm | Not more than 10 mm |
| 9 | Compressive Strength | | |
| | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| | 7 Days | 39.0N/mm$^2$ | Not less than 37 N/mm$^2$ |
| | 28 Days | 55.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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**Prepared by**
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

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